

ABSTRACT

An optical system comprising a light source and a beamsplitter for splitting the beam of the light source into a primary output beam and a secondary output beam. The power of the secondary output beam is a substantially fixed small percentage (preferably less than 0.5 %, such as less than 0.1 %) of the power of the primary output beam, at least within a certain wavelength range. Thus, measuring the power of the secondary output beam provides a precise measure for the power of the primary output beam. May be used for controlling/adjusting the output power of the primary output beam, e.g. for keeping the power substantially constant. The fixed percentage is preferably invariant to wavelength variations, at least within a certain wavelength range. Preferably, a low variation in power (ripple) is induced.

Furthermore, a method of controlling the output of an optical system.